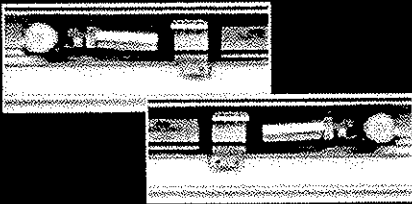


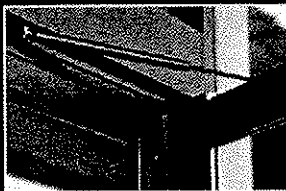
Basic Heavy Duty Features

- Medium Width Stiles
- Welded Door Panel Construction
- Extra Load Wheels
- Kickplates
- Stainless Steel Crash Bars



Advanced Door Operation

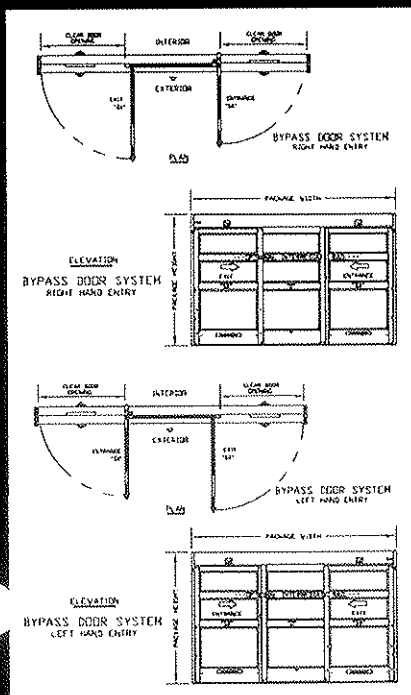
- Twin 1/4HP Motors.
- Opens Doors Quickly.
- Avoids Collisions.
- Avoids Structural Damage.
- Avoids Glass Damage.



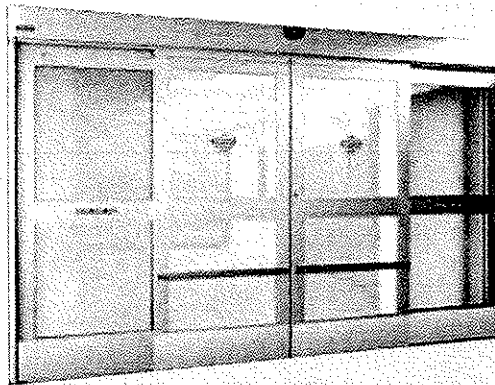
Wind Resistant Damper

- Reduces door panel damage by controlling panel breakout in strong winds.
- Designed to handle corner zone wind applications.

IMPACT & NONIMPACT VERSIONS



DURA-GUARD™ HD SERIES



DOOR PACKAGES ARE CUSTOM MANUFACTURED TO FIT YOUR JOB REQUIREMENTS

HEADER SIZE: 8" (203mm) high x 6" (152mm) deep
MAXIMUM SIZES: Bipart - 14' wide (4.2m) x 10'8" (3.3m) high to 16' (4.8m) wide x 8'8" (2.6m) high
 Single Slide - 9' wide (2.74) x 8'8" high (2.66m)
MINIMUM SIZES: Bipart - 12' wide (3.66m) x 7'8" high (2.34m), Single Slide - 7'6" wide (2.29m) x 7'8" (2.34m) high
TYPICAL DOOR PANEL WEIGHT: up to 220 pounds each (100kg)
DRIVE SYSTEM: two 1/4 HP DC motors
CONTROLLER: microprocessor based, safety logic, watchdog LED
SENSORS: 2 for motion (switchable between uni-directional and bi-directional) and 1 Stan-Guard* and doorway holding beam for safety. Stan-Vision™ Digital Video Cameras Optional. Mats, wallplates, radio control optional.
BREAKOUT: SX panel on the 2000, SX and SO panels on the 3000
POWER REQUIRED: 120 VAC, 5 amps min.
CODE COMPLIANCE: UL, cUL, ANSI A156.10, UBC, BOCA, ICBO, NFPA 101
CLEAR DOOR OPENING: Bipart: 1/2 package width less 16 1/8" (411mm) Single Slide: 1/2 package width less 9" (229mm)

The Dura-Guard™ 2000/3000 Heavy Duty Series Doors are designed to lower costly door repairs resulting from the abuse and collisions with carts and fork lift trucks. Ideal for home centers and warehouses where automatic doors are subjected to daily rigors.

The door is configured to open quickly to prevent collisions. If the doors are hit, rugged construction will minimize damage to the door. Two stainless steel crash bars with rubber isolated shock mounting allow for shock absorption and deflect colliding carts off the door, preventing possible glass damage. In addition the kickplates protect the bottom rail from impact damage and further strengthen the door by "strapping" lead and rear stiles together, which also have tie rods and welded corners.

- Advanced sensors detect carts and fork-lifts, signaling the doors to open sooner.
- Hurricane compliant Dura-Storm versions available to meet stringent Dade County Florida's code requirements.

THE BYPASS DOOR SERIES

DOOR PACKAGES ARE CUSTOM MANUFACTURED TO FIT YOUR JOB REQUIREMENTS. FOR SIZES GREATER OR SMALLER THEN TYPICAL, CONTACT YOUR STANLEY SALES REPRESENTATIVE.

HEADER SIZE: 8" (203mm) high x 6" (152mm) deep,
 2 packages included for 12" overall depth
DOOR PACKAGE SIZE:
 Standard: 116" min. width / 220.5" max. width / 7'-8" typical height
 Impact: 122" min. width / 168" max. width / 7'-8" available height
IMPACT OPTION: +/- 70 psf
DOOR PANEL WEIGHT: up to 220 pounds each (100kg)
DRIVE SYSTEM: 1/4 HP DC motor standard
CONTROLLER: microprocessor based, safety logic, watchdog LED
SENSORS: 2 for motion (switchable between uni-directional and bi-directional) and 1 StanGuard* and doorway holding beam for safety. Stan-Vision™ Digital Video Cameras Optional. Mats, wallplates, radio control optional.
BREAKOUT: SX on the Entrance (when fully closed); SX panel on the Exit
POWER REQUIRED: 120 VAC, 10 amps min.
TEMPERATURE RATING: -30F to +130F
CODE COMPLIANCE: ANSI A156.10, NFPA 101, UL, cUL, IBC, ICBO, BOCA, South Florida Building Code, Miami-Dade County Compliance, NOA 03-0605.03



By keeping the entry and exit doors independent, the ByPass system allows for increased and controlled pedestrian traffic flow. A continuous header for both entrance and exit doors simplifies building design. These doors provide a larger clear door opening than standard biparting doors. An impact version with a 70psf wind load rating meets Miami-Dade protocol and is available for structures withstanding hurricane force winds.



Access Technologies
Dura-Storm 2000 (Steel Reinforced)

IMPACT RATED
SLIDING AUTOMATIC ENTRANCES
SECTION 08 42 29.43 [08461]

SECTION 08 42 29.43 [08461]
IMPACT RATED SLIDING AUTOMATIC ENTRANCES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following types of automatic entrance doors:
 - 1. Exterior and interior, impact rated sliding automatic entrance doors with steel reinforcing.
 - 2. Single Slide
 - a. Width: Not to exceed 108 inches (2743 mm).
 - b. Height: Not to exceed 92 inches (2337 mm).
 - 3. Bi-Parting
 - a. Width: Not to exceed 192 inches (4877 mm).
 - b. Height: Not to exceed 104 inches (2642 mm).
- B. Related Sections:
 - 1. Division 7 Sections for caulking to the extent not specified in this section.
 - 2. Division 8 Section "Aluminum-Framed Entrances and Storefronts" for entrances furnished separately in Division 8 Section.
 - 3. Division 8 Section "Door Hardware" for hardware to the extent not specified in this Section.
 - 4. Division 8 Section Glazing for materials and installation requirements of glazing for impact rated sliding automatic entrance doors.
 - 5. Division 16 Sections for electrical connections including conduit and wiring for impact rated sliding automatic entrance door operators.

1.03 REFERENCES

General: Standards listed by reference, including revisions by issuing authority, form a part of this specification section to extent indicated. Standards listed are identified by issuing authority, authority abbreviation, designation number, title or other designation established by issuing authority. Standards subsequently referenced herein are referred to by issuing authority abbreviation and standard designation.

- A. Underwriters Laboratories (UL):
 - 1. UL 325 – Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems.
- B. American National Standards Institute (ANSI) / Builders' Hardware Manufacturers Association (BHMA):
 - 1. ANSI/BHMA A156.10: Standard for Power Operated Pedestrian Doors.
 - 2. ANSI/BHMA A156.5: Standard for Auxiliary Locks and Associated Products
- C. American Society for Testing and Materials (ASTM):
 - 1. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
 - 2. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate

- D. American Welding Society (AWS):
 - 1. AWS A5.10/A5.10M - Specification For Bare Aluminum And Aluminum-Alloy Welding Electrodes And Rods.
- E. American Association of Automatic Door Manufacturers (AAADM):
- F. National Fire Protection Association (NFPA):
 - 1. NFPA 101 – Life Safety Code.
 - 2. NFPA 70 – National Electric Code.
- G. International Code Council (ICC):
 - 1. IBC: International Building
- H. Building Officials and Code Administrators International (BOCA), 1999:
- I. International Conference of Building Officials (ICBO):
 - 1. UBC 1997: Uniform Building Code
- J. International Organization for Standardization (ISO):
 - 1. ISO 9001 - Quality Management Systems
- K. National Association of Architectural Metal Manufacturers (NAAMM):
 - 1. Metal Finishes Manual for Architectural and Metal Products.
- L. American Architectural Manufacturers Association (AAMA):
 - 1. AAMA 607.1 - Clear Anodic Finishes for Architectural Aluminum.
 - 2. AAMA 611 Voluntary Specification for Anodized Architectural Aluminum.
 - 3. AAMA 701 Voluntary Specification for Pile Weatherstripping and Replaceable Fenestration Weatherseals.
- M. Miami-Dade County Building Code Compliance Office
 - 1. Product Control Division, Notice of Acceptance
- N. Florida Building Code, 2001, 2004
- O. Florida Administrative Code (FAC)
 - 1. 9B-72 – Product Approval

1.04 DEFINITIONS

- A. Activation Device: Device that, when actuated, sends an electrical signal to the door operator to open the door.
- B. Safety Device: Device that prevents a door from opening or closing, as appropriate.

1.05 PERFORMANCE REQUIREMENTS

- A. Provide automatic entrance door assemblies capable of withstanding structural loads and thermal movements based on testing manufacturer's standard units in assemblies similar to those indicated for this Project.
- B. Thermal Movements: Provide automatic entrance doors that allow for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures by preventing buckling, opening of joints, overstressing of components, failure of joint sealants,



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failure of connections, and other detrimental effects. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

1. Temperature Change (Range): 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.
- C. Operating Range: Minus 30 deg F (Minus 34 deg C) to 130 deg F (54 deg C).
- D. Opening-Force Requirements for Egress Doors: Not more than 50 lbf (222 N) required to manually set door in motion if power fails, and not more than 15 lbf (67 N) required to open door to minimum required width.
- E. Closing-Force Requirements: Not more than 30 lbf (133 N) required to prevent door from closing.
- F. Design Pressures: Impact rated sliding automatic entrance door systems shall be designed to withstand up to 50 psf (2394 Pa) positive and negative pressure.

1.06 SUBMITTALS

- A. Submit listed submittals in accordance with Conditions of the Contract and Division 1 Specification Sections.
- B. Shop Drawings: Include plans, elevations, sections, details, hardware mounting heights, and attachments to other work.
- C. Closeout Submittals:
1. Owner's Manual.
 2. Warranties.
- D. Design Certifications:
1. Product Control Division, Notice of Acceptance from Miami-Dade County Building Code Compliance Office.
 2. Product Approval in accordance with FAC 9B-72.

1.07 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained for installation and maintenance of units required for this Project.
- B. Manufacturer Qualifications: A qualified manufacturer with a manufacturing facility certified under ISO 9001 and with company certificate issued by AAADM.
- C. Certifications: Automatic sliding door systems shall be certified by the manufacturer to meet performance design criteria in accordance with the following standards:
1. ANSI/BHMA A156.10.
 2. NFPA 101.
 3. Underwriter's Laboratories 325 (UL) listed.
 4. IBC
 5. ICBO
 6. BOCA
 7. Miami-Dade County Building Code Compliance Office
 8. Florida Building Code, 2001, 2004.



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- D. Source Limitations: Obtain automatic entrance door assemblies through one source from a single manufacturer.
- E. Product Options: Drawings indicate sizes, profiles, and dimensional requirements of automatic entrance door assemblies and are based on the specific system indicated. Refer to Division 1 Section "Product Requirements."
- F. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- G. Emergency-Exit Door Requirements: Comply with requirements of authorities having jurisdiction for automatic entrance doors serving as a required means of egress.

1.08 PROJECT CONDITIONS

- A. Field Measurements: General Contractor shall verify openings to receive automatic entrance door assemblies by field measurements before fabrication and indicate measurements on Shop Drawings.
- B. Mounting Surfaces: General Contractor shall verify all surfaces to be plumb, straight and secure; substrates to be of proper dimension and material.
- C. Other trades: General Contractor shall advise of any inadequate conditions or equipment.

1.09 COORDINATION

- A. Coordinate size and location of recesses in concrete floors for recessed sliding tracks. Concrete, reinforcement, and formwork requirements are specified in Division 3, as required.
- B. Templates: Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing automatic entrance doors to comply with indicated requirements.
- C. Electrical System Roughing-in: Coordinate layout and installation of automatic entrance door assemblies with connections to power supplies.

1.10 WARRANTY

- A. Automatic Entrance Doors shall be free of defects in material and workmanship for a period of one (1) year from the date of substantial completion.
- B. During the warranty period the Owner shall engage a factory-trained technician to perform service and affect repairs. A safety inspection shall be performed after each adjustment or repair and a completed inspection form shall be submitted to the Owner.
- C. During the warranty period all warranty work, including but not limited to emergency service, shall be performed during normal working hours.

PART 2 - PRODUCTS

2.01 AUTOMATIC ENTRANCE DOORS

- A. Manufacturer: Stanley Access Technologies; Dura-Storm™ 2000 Series impact rated sliding automatic entrances with steel reinforcement.

2.02 MATERIALS

- A. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
 - 1. Headers, stiles, rails, and frames 6063-T6
 - 2. Extruded Bars, Rods, Profiles, and Tubes: ASTM B 221.
 - 3. Sheet and Plate: ASTM B 209.
 - 4. Welding Rods and Bare Electrodes: AWS A5.10/A5.10M.
- B. Sealants and Joint Fillers: Performed under Division 7 Section "Joint Sealants".

2.03 IMPACT RATED AUTOMATIC ENTRANCE DOOR ASSEMBLIES

- A. Provide manufacturer's standard automatic entrance door assemblies including doors, sidelites, framing, headers, carrier assemblies, roller tracks, door operators, activation and safety devices, and accessories required for a complete installation.
- B. Impact Rated Sliding Automatic Entrance Doors:
 - 1. Single Slide sliding doors:
 - a. Configuration: One sliding leaf and one sidelite.
 - b. Traffic Pattern: Two-way.
 - c. Emergency Breakaway Capability: Sliding leaves only.
 - d. Mounting: Between jambs.
 - e. Maximum Width: Not to exceed width specified.
 - 2. Bi-Parting sliding doors:
 - a. Configuration: Two sliding leaves and two sidelites.
 - b. Traffic Pattern: Two-way.
 - c. Emergency Breakaway Capability: Sliding leaves only.
 - d. Mounting: Between jambs
 - e. Maximum Width: Not to exceed width specified.

2.04 COMPONENTS

- A. Framing Members: Manufacturer's standard extruded aluminum reinforced as required to support imposed loads.
 - 1. Nominal Size: 1 3/4 inch by 4 1/2 inch (45 by 115 mm)
 - 2. Extruded Glazing Stops and Applied Trim: Minimum 0.062-inch (1.6-mm) wall thickness.
- B. Stile and Rail Doors and Sidelites: Manufacturer's standard 1 3/4 inch (45 mm) thick glazed doors with extruded-aluminum tubular stile and rail members. All door corners, including intersections of stiles and rails or stiles and muntin bars, shall be welded secure.
 - 1. Glazing Stops: Impact security glass stops for use with 9/16 inch (14-mm) impact glass.
 - 2. Stile Design: Medium stile; 3 1/2 inch (89-mm) nominal width.
 - 3. Bottom Rail Design: Minimum 10-inch (254-mm) nominal height.
 - 4. Muntin Bars: Minimum one, maximum two, 4 1/2-inch (114-mm) nominal height horizontal tubular rail member for each door.
 - 5. Steel Reinforcing:
 - a. Sliding Panels: Minimum 1 3/8 inch x 5/8 inch (35 mm x 16 mm) solid steel bar in all vertical stiles.
 - b. Sidelites: Minimum 1 1/4 inch x 1/4 inch x 3/16 inch (32 mm x 32 mm x 5 mm) steel tube in all vertical stiles.
- C. Glazing: As specified in Division 8 Section Glazing.

1. Glass: 9/16-inch (14-mm) laminated impact rated glass as specified in the Miami-Dade County Building Code, Notice of Acceptance.
 2. Glazing: Double wet glaze with Dow 995 or approved equivalent.
- D. Headers: Fabricated from extruded aluminum and extending full width of automatic entrance door units to conceal door operators, carrier assemblies, and roller tracks. Provide hinged or removable access panels for service and adjustment of door operators and controls. Secure panels to prevent unauthorized access.
1. Mounting: Concealed, with one side of header flush with framing.
 2. Capacity: Capable of supporting doors up to 220 lb (99 kg) per leaf over spans up to 14 feet (4.3 m) without intermediate supports.
- E. Carrier Assemblies and Overhead Roller Tracks: Manufacturer's standard carrier assembly that allows vertical adjustment of at least 1/8 inch; consisting of minimum 2 1/2 inch diameter urethane with precision steel lubricated ball-bearing wheels, operating on a continuous roller track. Support doors from carrier assembly by 2 inch diameter anti-riser wheels with factory adjusted cantilever and pivot assembly. Minimum two ball-bearing roller wheels and two anti-riser rollers for each active leaf.
- F. Thresholds: Manufacturer's standard saddle type thresholds as indicated below:
1. Continuous standard tapered extrusion double bevel.
 2. All thresholds to conform to details and requirements for code compliance.
- G. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, non-staining, non-bleeding fasteners and accessories compatible with adjacent materials.
- H. Signage: Provide signage in accordance with ANSI/BHMA A156.10.

2.05 DOOR OPERATORS

- A. Provide door operators of size recommended by manufacturer for door size, weight, and movement; for condition of exposure; and for long-term, operation under normal traffic load for type of occupancy indicated.
- B. Electromechanical Operators: Self-contained overhead unit powered by a minimum of 1/4 horsepower, permanent-magnet DC motor with gear reduction drive, microprocessor controller; and encoder.
1. Operation: Power opening and power closing.
 2. Features:
 - a. Adjustable opening and closing speeds.
 - b. Adjustable back-check and latching.
 - c. Adjustable braking.
 - d. Adjustable hold-open time between 0 and 30 seconds.
 - e. Obstruction recycle.
 - f. On/Off switch to control electric power to operator.
 - g. Energy conservation switch that reduces door-opening width.
 - h. Variable rate open/closed speed control.
 - i. Closed loop speed control with active braking and acceleration.
 - j. Variable obstruction recycle time delay.
 - k. Self adjusting stop position.
 - l. Self adjusting closing compression force.
 - m. Optional Switch to open/Switch to close operation.
 3. Mounting: Concealed.

4. Drive System: Synchronous belt type.

- C. Electrical service to door operators shall be provided under Division 16 Electrical. Minimum service to be 120 VAC, 5 amps.

2.06 ELECTRICAL CONTROLS

- A. Electrical Control System: Electrical control system shall include a microprocessor controller and position encoder. The encoder shall monitor revolutions of the operator shaft and send signals to microprocessor controller to define door position and speed. Systems utilizing external magnets and magnetic switches are not acceptable. A single controller shall be capable of controlling up to 2 operators per entrance system.
- B. Life Cycle Data Counter: The microprocessor control shall incorporate a non-re-settable counter to track door operation cycles.
- C. Controller Protection: The microprocessor controller shall incorporate the following features to ensure trouble free operation:
1. Automatic Reset Upon Power Up
 2. Fuse Protection
 3. Electronic Surge Protection
 4. Internal Power Supply Protection.
 5. Software "Watchdog" protection in the case of software malfunction.
- D. Soft Start/Stop: A "soft-start" "soft-stop" motor driving circuit shall be provided for smooth normal opening and recycling.
- E. Safety Search Circuitry: Provide system to recycle the sliding panels when an obstruction is encountered during the closing cycle. If an obstruction is detected, the system shall search for that object on the next closing cycle by reducing door closing speed prior to the previously encountered obstruction location, and will continue to close in check speed until doors are fully closed, at which time the doors will reset to normal speed. If obstruction is encountered again, the door will come to a full stop. The doors shall remain stopped until obstruction is removed and operate signal is given, resetting the door to normal operation.
- F. Programmable Controller: Microprocessor controller shall be programmable and shall be designed for connection to a local configuration tool. Local configuration tool shall be software driven and shall be utilized via Palm® handheld interface. The following parameters may be adjusted via the configuration tool.
1. Operating speeds and forces as required to meet ANSI/BHMA A156.10.
 2. Adjustable and variable features as specified in 2.05, B., 2.
 3. Reduced opening position.
 4. Firmware update.
 5. Trouble Shooting
 - a. I/O Status.
 - b. Electrical component monitoring including parameter summary.
 6. Entrance profile copy/paste.
- Software for local configuration tool shall be available as a free download from the sliding automatic entrance manufacturer's internet site.

2.07 ACTIVATION AND SAFETY DEVICES

- A. Motion Sensors: Motion sensors shall be mounted on each side of door header to detect pedestrians in the activating zone, and to provide a signal to open doors in accordance with

ANSI/BHMA A156.10. Units shall be programmable for bi-directional or uni-directional operation and shall incorporate K-band microwave frequency to detect all motion in both directions.

- B. Presence Sensors: Presence sensors shall be provided to sense people or objects in the threshold safety zone in accordance with ANSI/BHMA A156.10. Units shall be self-contained, fully adjustable, and shall function accordingly with motion sensors provided. The sensor shall be energized simultaneously with the door-opening signal and shall emit an elliptical shaped infrared presence zone, centered on the doorway threshold line. Presence sensors shall be capable of selectively retuning to adjust for objects which may enter the safety zone; tuning out, or disregarding, the presence of small nuisance objects and not tuning out large objects regardless of the time the object is present in the safety zone. The door shall close only after all sensors detect a clear surveillance field.
- C. Photoelectric Beams: In addition to the threshold sensor include a minimum of two (2) doorway holding beams. Photoelectric beams shall be pulsed infrared type, including sender receiver assemblies for recessed mounting.

2.08 HARDWARE

- A. Provide units in sizes and types recommended by automatic entrance door and hardware manufacturers for entrances and uses indicated.
- B. Emergency Breakaway Feature: Provide release hardware that allows panel(s) to swing out in direction of egress to full 90 degrees from any position in sliding mode. Maximum force to open panel shall be 50 lbf (222 N) according to ANSI/BHMA A156.10. Interrupt powered operation of panel operator while in breakaway mode.
 - 1. Emergency breakaway feature shall include at least two adjustable detent devices mounted in each breakaway panel; one top mounted and one bottom mounted, to control panel breakaway force.
 - 2. Wind Resistant Damper: Provide factory installed concealed gas dampers in each breakaway panel to protect door panels from wind damage. Dampers shall be designed to slow panel movement after breakout.
- C. Locking: Manufacturer's approved multi-point locking system as follows:
 - 1. Hook bolt: Laminated-steel hook, mortise type, operated by exterior cylinder and interior thumb turn; with minimum 1 inch (25 mm) long throw bolt; ANSI/BHMA A156.5, Grade 1.
 - 2. Provide five-point lock system as follows:
 - a. Two-Point Locking: Provide locking system that incorporates a device in the stile of the active door leaf that automatically extends a flush bolt into overhead carrier assembly on engagement of hook bolt lock.
 - b. Supplemental Locking: Provide locking components, operated by exterior cylinders and interior thumb turns, that extend flush bolts into overhead carrier assembly of inactive leaf and threshold of active/inactive leaf.
 - 1) Single Slide: 1-Point supplemental locking.
 - 2) Bi-parting: 3-Point supplemental locking.
 - 3. Cylinders: Provide BEST lock cylinders, with core and key.
 - 4. Lock/Unlock Indicators: Provide lock position indicators integrated with locking system. Indicators shall be stile mounted on the secure side of the door and provide a visual display of lock position for; "OPEN" in black letters when unlocked, "LOCKED" in red letters when locked.
 - 5. Armored Strike: Provide reinforced security strike plate to prevent lock tampering.

- D. Control Switch: Provide manufacturer's standard rotary switch located 66-inch (1676-mm) above finish floor on the interior jamb to allow for full control of the automatic entrance door. Controls to include, but are not limited to:
 - 1. Power On/Off
 - 2. Reduced Opening
 - 3. Open/Closed/Automatic
- E. Sliding Weather Stripping: Manufacturer's standard replaceable components complying with AAMA 701; made of wool, polypropylene, or nylon woven pile with nylon-fabric or aluminum-strip backing.
 - 1. Provide double pile weather stripping on lead stiles of sliding panels.
 - 2. Provide single pile weather stripping between carrier and header, lead stiles of sidelites, and on pivot stiles of sliding panels.
- F. Weather Sweeps: Minimum of 2 adjustable nylon brush sweep mounted to underside of door bottom.

2.09 FABRICATION

- A. Factory fabricates automatic entrance door assembly components to designs, sizes, and thickness indicated and to comply with indicated standards.
 - 1. Form aluminum shapes before finishing.
 - 2. Use concealed fasteners to greatest extent possible.
 - a. Where fasteners are subject to loosening or turning out from thermal and structural movements, wind loads, or vibration, use self-locking devices.
 - b. Reinforce members as required to receive fastener threads.
- B. Framing: Provide automatic entrance doors as prefabricated assemblies.
 - 1. Fabricate tubular and channel frame assemblies with manufacturer's standard mechanical or welded joints. Provide sub-frames and reinforcement as required for a complete system to support required loads.
 - 2. Perform fabrication operations in manner that prevents damage to exposed finish surfaces.
 - 3. Form profiles that are sharp, straight, and free of defects or deformations.
 - 4. Prepare components to receive concealed fasteners and anchor and connection devices.
 - 5. Fabricate components with accurately fitted joints with ends coped or mitered to produce hairline joints free of burrs and distortion.
- C. Doors: Factory fabricated and assembled in profiles indicated. Reinforce as required to support imposed loads and for installing hardware.
- D. Door Operators: Factory fabricated and installed in headers, including adjusting and testing.
- E. Glazing: Fabricate framing with minimum glazing edge clearances for thickness and type of glazing indicated.
- F. Hardware: Factory install hardware to the greatest extent possible; remove only as required for final finishing operation and for delivery to and installation at Project site.

2.10 ALUMINUM FINISHES

- A. Comply with NAAMM Metal Finishes Manual for Architectural and Metal Products for recommendations for applying and designing finishes. Finish designations prefixed by AA comply with system established by Aluminum Association for designing finishes.



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- B. Class II, Clear Anodic Finish: AA-M10C22A31 Mechanical Finish: as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, clear coating 0.40 mils minimum complying with AAMA 611-98, and the following:
 - 1. AAMA 607.1
 - 2. Applicator must be fully compliant with all applicable environmental regulations and permits, including wastewater and heavy metal discharge.

PART 3 - EXECUTION

3.01 INSPECTION

Examine conditions for compliance with requirements for installation tolerances, header support, and other conditions affecting performance of automatic entrance doors. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Do not install damaged components. Fit frame joints to produce joints free of burrs and distortion. Rigidly secure non-movement joints.
- B. Entrances: Install automatic entrance doors plumb and true in alignment with established lines and grades without warp or rack of framing members and doors. Anchor securely in place.
 - 1. Install surface-mounted hardware using concealed fasteners to greatest extent possible.
 - 2. Set headers, carrier assemblies, tracks, operating brackets, and guides level and true to location with anchorage for permanent support.
- C. Door Operators: Connect door operators to electrical power distribution system as specified in Division 16 Sections.
- D. Glazing: Install glazing as specified in Division 8 Section "Glazing".
- E. Sealants: Comply with requirements specified in Division 7 Section "Joint Sealants" to provide weather tight installation.

3.03 FIELD QUALITY CONTROL

Testing Services: Factory Trained Installer shall test and inspect each automatic entrance door to determine compliance of installed systems with applicable ANSI standards.

3.04 ADJUSTING

Adjust door operators, controls, and hardware for smooth and safe operation, for weather-tight closure, and complying with requirements in ANSI/BHMA A156.10.

3.05 CLEANING AND PROTECTION

Clean glass and aluminum surfaces promptly after installation. Remove excess glazing and sealant compounds, dirt, and other substances. Repair damaged finish to match original finish. Comply with requirements in Division 8 Section "Glazing", for cleaning and maintaining glass.

END OF SECTION 08 42 29.43 [08461]

Available options not specified in this document are summarized as follows:

1. Various threshold configurations (Continuous Double Bevel threshold specified).
2. Finish (Class 2, Clear Anodized specified) options include:
 - a. Standard color anodizing options.
 - b. Multi-coat Fluoropolymer painted finishes.
3. Locking options (5-Point locking specified):
 - a. Electric Solenoid Lock (Fail Safe/Fail Secure)
4. Activation and safety options including video based motion/presence sensing.
5. Control switch options including keyed control switch.
6. Alarm Contacts option, allows for remote monitoring of panel status.
7. Emergency Power Options.
 - a. Uninterruptible Power Supply (UPS); extended operation.
 - b. Fly Open Box; One time operation.

Contact SpecCentre services or your local Stanley Access Technologies representative for more information on specifying the right sliding automatic entrance for your project.

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